PTO/SB/05 (03-01)
Approved for use through 10/31/2002. OMB 0651-0032
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| UTILITY |
|--------------------|
| PATENT APPLICATION |
| TRANSMITTAL |

0543.001 Attorney Docket No. Timothy Olson First Inventor HYDROCYCLONE ROPING DETECTOR AND METHOD

| | | 110 | <u></u> | | | | | | ~~~~ |
|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|--------------------------------------------------------------------------|-------------------------------|-----------------------------|--------------------------------------------|------------|---------------------|------------|
| (Only for new nonprovision | nal applications under 37 CFR 1.53(b) |)) Ex | press | Mail Lab | el No. E | V 2162 | 1275 | 34 US | 23 |
| APPLICATION ELEMENTS See MPEP chapter 600 concerning utility patent application contents. | | | ADD | RESS T | O: Box | sistant Com x Patent Ap ashington, D | plication | on | ents |
| Fee Transmittal F | orm (e.g., PTO/SB/17) | | 7. | 7 CD-ROM | | n duplicate, | | | |
| 1. (Submit an ariginal and a Applicant claims s | duplicate for fee processing) small entity status. | | مسا | ☐ Compute | er Program | (Appendix) |) | | |
| 2. See 37 CFR 1.27. | | | | leotide and/ applicable, a | | | nce su | IDNIISSION | |
| 3. Specification (preferred arrangemen | [Total Pages 14] | | a. [| Compu | iter Readat | ble Form (C | RF) | | |
| - Descriptive title | of the invention be to Related Applications | | b. S | Specification | Sequence | e Listing on: | : | | |
| - Statement Reg | arding Fed sponsored R & D | | | i. 🔲 | CD-ROM | or CD-R (2 | copies | i); or | |
| | equence listing, a table, program listing appendix | | _ | ii. 🗌 | paper | | | | |
| - Background of | the Invention | | с. [| Statem | ients verify | ing identity | of abo | ve copies | |
| - Brief Summary - Brief Descriptio | of the Invention on of the Drawings (if filed) | | A | CCOMP | ANYING | APPLIC | ATIO | N PART | S |
| - Detailed Descri | | | 9. | | • | rs (cover sh | eet & o | | |
| - Claim(s) - Abstract of the | Disclosure | _ | 10. | | R 3.73(b) Si there is an | | V | Power of Attorney | |
| 4. Drawing(s) (35 U | J.S.C. 113) [Total Sheets 5 |]] | 11. | English | ı Translatio | on Documer | nt (if ap | | - (0.0 |
| 5. Oath or Declaration | [Total Pages 2 | 11 | 12. | <i>-</i> | ation Disclo ent (IDS)/F | | V | Copies of Citations | กบร |
| | uted (original or copy) | ١. | 13. | ~~ | inary Amen | | | | |
| Copy from a | ibled (driginal of copy) a prior application (37 CFR 1.63 (d)) ation/divisional with Box 18 completed) |) | 14. Return Receipt Postcard (MPEP 503) (Should be specifically itemized) | | | | | | |
| i. DELET | | 15. Certified Copy of Priority Document(s) (if foreign priority is claimed) | | | | | | | |
| Signed sta | | | | | equest und | | U.S.C. 122 | | |
| 1.63(d)(2) | | 16. | (b)(2)(E | B)(i). Applic | cant must a | | | | |
| 6. Application Data | | 17. | | equivalent. | cate of r | ~~Aiiii | ~~····· | | |
| 7,7, | | | <u> </u> | | | , | | | |
| 18. If a CONTINUING APPL or in an Application Data She | ICATION, check appropriate box, and eet under 37 CFR 1.76: | supply th | ie requ | iisite intorma | ation below | ı and ın a pı | relimiņ | ary amena | ment, |
| Continuation | Divisional Continuation-in-part (| (CIP) | D | of prior applicati | ion No.: | / | | | - |
| Prior application information: | Examiner: | | | | Group Art Unit: | | | | |
| For CONTINUATION OR DIVIS | IONAL APPS only: The entire disclosure of the disclosure of the accompanying co | of the pri | or appli | ication, from | which an o | oath or decla | aration | is supplied | under |
| | relied upon when a portion has been in | | | | | | | | |
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| Name | Antonio R. Durando | | | | | | | | |
| | Durando Birdwell & Janke, P.L.C | <u>C.</u> | | | | | | | |
| Address | 2929 E. Broadway Blvd. | | | | | | | | |
| City | Tucson | Ste | ate | AZ | | Zip C | ode | 85716 | |
| Country | US | Telepho | one | 520-88 | 1-9442 | Fa. | x | 520-881- | 9448 |
| Name (Print/Type) | Antonio R. Durando | | Regi | istration No | Aftorne | ev/Agent) | | 28,409 | |
| Signature | MEN. 10 | | 1 | | . 1 | Date | 61 | , |) 3 |
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PTO/SB/17 (05-03)

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Effective 01/01/2003. Patent fees are subject to annual revision.

 $\overline{\mathrm{X}}$ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT

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|----------------------|-------------------------|--|--|--|--|--|--|--|
| Application Number | | | | | | | | |
| Filing Date | | | | | | | | |
| First Named Inventor | Timothy J. Olson et al. | | | | | | | |
| Examiner Name | | | | | | | | |
| Art Unit | | | | | | | | |
| Attorney Docket No. | 0543.001 | | | | | | | |

| METHOD OF PAYMENT (check all that apply) | | | FEE CALCULATION (continued) | | | | | | |
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| X Deposit | Account: | — Older — | | <u>Large</u> | Entity | Small | Entity | ! | |
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| Account Number | 04-193 |)) | | 1051 | 130 | 2051 | 65 | Surcharge - late filing fee or oath | |
| Deposit Account | Antoni | io R. Durando | | 1052 | 50 | 2052 | 25 | Surcharge - late provisional filing fee or cover sheet | |
| Name The Director i | s authorized t | o: (check all that apply) | | 1053 | 130 | 1053 | 130 | Non-English specification | |
| | (s) indicated b | | overpayments | 1812 | 2,520 | 1812 | 2,520 | For filing a request for ex parte reexamination | |
| = | • • | (s) during the pendency of | | 1804 | 920* | 1804 | 920* | Requesting publication of SIR prior to Examiner action | |
| | | elow, except for the filing | j fee | 1805 | 1,840* | 1805 | 1,840* | Requesting publication of SIR after Examiner action | |
| to the above-id | | | | 1251 | 110 | 2251 | 55 | Extension for reply within first month | |
| | | CALCULATION | | 1252 | 410 | 2252 | 205 | Extension for reply within second month | |
| 1. BASIC F | | | | 1253 | 930 | 2253 | | Extension for reply within third month | |
| Fee Fee | Fee Fee | Fee Description | Fee Paid | 1254 | 1,450 | 2254 | 725 | Extension for reply within fourth month | |
| Code (\$) 1001 750 | Code (\$) 2001 375 | Utility filing fee | | 1255 | 1,970 | 2255 | 985 | Extension for reply within fifth month | |
| 1002 330 | 2002 165 | Design filing fee | 375 | 1401 | 320 | 2401 | 160 | Notice of Appeal | |
| 1003 520 | 2003 260 | Plant filing fee | | 1402 | 320 | 2402 | 160 | Filing a brief in support of an appeal | |
| 1004 750 | 2004 375 | Reissue filing fee | | 1403 | 280 | 2403 | 140 | Request for oral hearing | |
| 1005 160 | 2005 80 | Provisional filing fee | | 1451 | 1,510 | 1451 | 1,510 | Petition to institute a public use proceeding | |
| | إ | SUBTOTAL (1) (\$) | 375 | 1452 | 110 | 2452 | 55 | Petition to revive - unavoidable | |
| 2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE | | | DEICELLE | 1453 | 1,300 | 2453 | 650 | Petition to revive - unintentional | |
| Z. EXIKA | PLAIN FEE | Fee fro | om l | 1501 | 1,300 | 2501 | 650 | Utility issue fee (or reissue) | |
| Total Claims | 13 -20 | Extra Claims below | Fee Paid | 1502 | 470 | 2502 | | Design issue fee | |
| Independent | | r = 1 x 42 | 42 | 1503 | 630 | 2503 | | Plant issue fee | |
| Claims Multiple Depe | - سا | `- <u></u> -^ | ╡┇═╧═╣ | 1460 | 130 | 1460 | | Petitions to the Commissioner | |
| Large Entity | | | J | 1807 | 50 | 1807 | | Processing fee under 37 CFR 1.17(q) | |
| Fee Fee | Small Entity Fee Fee | L <u>Fee Description</u> | | 1806 | 180 | 1806 | | Submission of Information Disclosure Stmt | |
| Code (\$) 1202 18 | Code (\$) 2202 | 9 Claims in excess of 20 | | 8021 | 40 | 8021 | 40 | Recording each patent assignment per property (times number of properties) | 40 |
| 1202 18 | 2202 | • | | 1809 | 750 | 2809 | 375 | Filing a submission after final rejection (37 CFR 1.129(a)) | |
| 1203 280 | 2203 14 | • | | 1810 | 750 | 2810 | 375 | For each additional invention to be | |
| 1204 84 | 2204 4 | 2 ** Reissue independer over original patent | nt claims | 4004 | 750 | 2004 | 275 | examined (37 CFR 1.129(b)) | |
| 1205 18 | 2205 9 | | roess of 20 | 1801 1802 | 750 900 | 2801 1802 | 900 | Request for Continued Examination (RCE) Request for expedited examination | |
| 1200 10 | 2205 8 | and over original pat | ent | | | | 300 | of a design application | |
| SUBTOTAL (2) (\$) 42 | | | | fee (sp | | | | <u> </u> | |
| **or number | | id, if greater; For Reissues | , see above | "Redu | ced by | Basic F | -iling F | ee Paid SUBTOTAL (3) (\$) | 40 |

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Registration No.

(Attorney/Agent)

28,409

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Antonio R. Durando

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NONPUBLICATION REQUEST UNDER 35 U.S.C. 122(b)(2)(B)(i)

| Fital N | amed inventor | Timothy J. Olson et al. |
|---------|---------------------|-------------------------|
| Title | Hydrocycl Method | one Roping Detector and |
| Ally D | ocket Number | 0543.001 |

I hereby certify that the invention disclosed in the attached application has not and will not be the subject of an application filed in another country, or under a multilateral agreement, that requires publication at eighteen months after filing.

I hereby request that the attached application not be published under 35 U.S.C. 122(b).

KREBS ENGINEERS CORPORATION

Signature

Doug Schlepp, President

Typed or printed name

This request must be signed in compliance with 37 CFR 1.33(b) and submitted with the application upon filling.

Applicant may rescind this nonpublication request at any time. If applicant rescinds a request that an application not be published under 35 U.S.C. 122(b), the application will be scheduled for publication at eighteen months from the earliest claimed filing date for which a benefit is claimed.

If applicant subsequently files an application directed to the invention disclosed in the attached application in another country, or under a multilateral international agreement, that requires publication of applications eighteen months after filing, the applicant must notify the United States Patent and Trademark Office of such filing within forty-five (45) days after the date of the filing of such foreign or international application. Failure to do so will result in abandonment of this application (35 U.S.C. 122(b)(2)(B)(III)).

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CASE DOCKET NO.: 0543.001

APPLICANT(S): Timothy J. Olson and Roger L. Waterman

APPLICATION TITLE: "Hydrocyclone Roping Detector and Method"

CERTIFICATE OF MAILING

Kathleen C. Tennant

Enclosed are:

- [X] Itemized return postcard
- [X] A check in the amount of \$457 to cover the filing and recordation fees.
- [] Provisional Application for Patent Cover Sheet
- [X] Utility Patent Application Transmittal sheet
- [X] Fee Transmittal sheet (in duplicate)
- [X] Declaration for Utility or Design Patent Application
- [X] A specification of the invention and claims.
- [X] Power of Attorney or Authorization of Agent
- [X] Statement Under 37 CFR 3.73(b)
- [X] Assignment Agreement and Recordation Cover Sheet
- [X] Nonpublication Request Under 35 U.S.C. 122(b)(2)(B)(i)
- [X] Five sheets of drawings.
- [] __ photographs submitted as informal drawings for reference purposes only.
- [X] Information Disclosure Statement
- [X] Copies of prior art
- [] Copy of priority document